BLACK DIAMOND FILES

X. F. SWISS PATTERN FILES

CATALOG NUMBER BD-12



NICHOLSON FILE COMPANY . PROVIDENCE 1, RHODE ISLAND, U.S.A.

BLACK DIAMOND FILES AND RASPS

AND

X. F. SWISS PATTERN FILES

MADE BY

NICHOLSON FILE COMPANY

Providence 1, Rhode Island, U.S.A.

1955





CABLE ADDRESS: Nicholson Providence
CODES USED: Nicholson (order code) and all standard codes
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HISTORICAL SKETCH

The main plant and general executive offices of the Nicholson File Company are located a short distance from the center of the city of Providence. They are of thoroughly modern construction, well lighted and ventilated, and designed especially for the manufacture of files. They are equipped with special machines and appliances, the principles of which were conceived by Mr. William T. Nicholson, the founder of the Nicholson File Company and the successful developer of the machine-file-making industry.

Mr. Nicholson's early business experience was in the machine tool business, where he developed the idea of constructing a file cutting machine. As he progressed with his new idea he became greatly enthused over the possibilities of such a machine and in order to be thoroughly informed regarding the file industry went to Europe which at that time supplied most of the files used in America. There he studied not only the manufacture and use of files but also such kindred industries as the manufacture and heat treatment of steel, and he returned only when he felt sufficiently informed on the subject to establish his own file factory.

In 1864 the Nicholson File Company was incorporated and its first plant erected immediately at Providence. It was hoped at the time that a daily production of 300 dozen files might be reached, but business was not easily obtained. Several similar enterprises were attempting to

cut files by machine, and the resulting products were of very inferior quality and were being offered by makers of hand cut files as convincing examples of the failure of file cutting by machinery.

The superior quality of the new Nicholson Files gradually became an acknowledged fact, the antagonism towards machine cut files diminished, and the output of the works slowly increased until over three hundred dozen files a day were being manufactured. Nicholson Files in a few years had become the standard in America, and hand cut files were a thing of the past.

In 1870 the first of a series of very complete catalogs was published, and in 1878 Mr. Nicholson wrote a treatise on files and their proper selection and use, which as "File Filosophy" is now in the second printing of its seventeenth edition.

Mr. Nicholson, at the time of his death in October 1893, had seen the output of his works increased to over 1500 dozen files daily, and he had established an organization which has since developed the Company until it now operates four large plants in the United States and Canada which turn out many thousands of dozens of files a day.

Colonel Samuel M. Nicholson, son of the founder, devoted his entire business life to the manufacture of files and managed the Company

from 1893 to the time of his death in 1939. Under his leadership the Nicholson File Company became the largest company in the world manufacturing exclusively Files and Rasps. Whereas the founder was a pioneer in the science of cutting files by machinery, Colonel Nicholson was a pioneer exporter of files and as a result Nicholson Files are to be found in every market of the world.

Mr. Paul C. Nicholson, who had been active in the Company since 1911, was elected President and General Manager in 1939. It is Mr. Nicholson who has guided the organization through the difficult years of World War II and the Post War Period and who has been responsible for the position the Company has maintained in Domestic and Export Markets.

On April 21, 1952, Mr. Paul C. Nicholson was elected Chairman of the Board of Directors and his son, Mr. Paul C. Nicholson, Jr., was elected President and General Manager, thus becoming the fourth generation in active charge of the Company's affairs. Mr. Nicholson, Jr., joined the Company in 1941 and served as Secretary from 1948 to 1952.

The principal factory of the Company is located at Providence and large branch factories are at Philadelphia, Pa., Anderson, Indiana, and Port Hope, Ontario. At the Providence factory are manufactured the full lines of Nicholson, and Black Diamond Brands of Files and Rasps, a complete line of Nicholson X.F. Swiss Pattern Files and various associated products such as File Handles, Holders, and Cleaners. Nicholson and Black Diamond Files and Rasps and Nicholson X.F. Swiss Pattern Files represent the very highest quality product of this Company.

The manufacture of Nicholson X.F. Swiss Pattern Files was first started in 1893 and is carried on in a thoroughly modern plant equipped with the finest tools and machinery to assure the production of Swiss Pattern Files of a quality that will give entire satisfaction to the exacting require-

ments of jewelers, watch makers and fine tool makers.

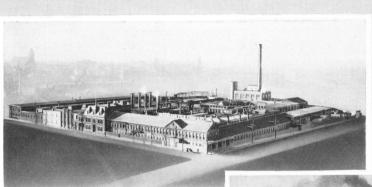
The Philadelphia and Anderson plants continue to manufacture brands well known throughout the country for over fifty years: American, Arcade, Eagle, Great Western, Kearney & Foot, McClellan and J. Barton Smith.

Our Canadian Plant manufactures Black Diamond, Globe, Arcade, Great Western and Kearney & Foot brand files.

WILLIAM T. NICHOLSON, Founder

NICHOLSON FILE COMPANY

NICHOLSON FILE COMPANY



PLANT AT PROVIDENCE, R. I. U.S. A.



PLANT AT PHILADELPHIA, PA. U.S. A.

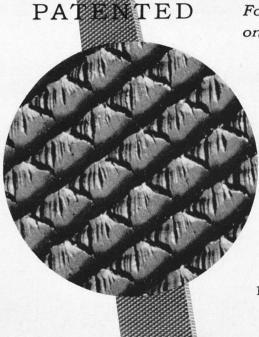
NICHOLSON FILE COMPANY



NICHOLSON FILE COMPANY OF CANADA, LTD. PORT HOPE, ONTARIO

PLANT AT ANDERSON, IND. U. S. A.

NICHOLSON FILE COMPANY



For Faster Filing on Soft Irons and Steels

For rapid filing of soft irons and steels, we recommend our Patented Tooth Construction known as "Controlled Serrations." This means that each tooth point is subdivided into extra cutting edges which permit the file to take hold of the stock from the first stroke and to remove more metal than ordinary files.

An added feature of this Tooth Construction is the elimination of the tendency of old style files to skid or slide from the line of work.

BLACK DIAMOND PATENTED FILE TEETH

Cut Faster, Last Longer
Do Not Ride Off the Line of Work

GENERAL INFORMATION

Riles and Rasps are made of high carbon steel of special analysis which is made under careful supervision and subjected to the most rigid inspections and tests. Skilled and careful attention is constantly given to this most important requisite of the highest quality product. The Nicholson File Company possesses facilities for manufacturing Files and Rasps which are unequaled by any other file factory in the world. Its extensive buildings were designed especially for the manufacture of Files and Rasps. Special machinery and methods of manufacture, which are the result of constant researches and inventions throughout the life of the Company, insure a completed product that is unexcelled.

Each process of manufacture is given highly skilled supervision and critical inspection while the work is being performed, resulting in a uniformity of product and a high excellence of quality.

Files and Rasps have three distinguishing features:

First—Their Length, which is always measured exclusive of the tang.

Second—Their Kind or Name, which has reference to the shape or style.

Third—Their Cut, which has reference not only to the character but also to the coarseness of the teeth.

This catalogue is designed to be of service to all those who distribute or use Files and Rasps.

It is not our intention to illustrate in full detail our entire product but rather to present sufficient illustrations of various types of Files and Rasps, with definite information concerning each, to make the book instructive and easily understood.

For convenience of reference we have grouped our product, all illustrated in this catalogue, into several classes as indicated below:

First—The Saw File Group, comprising the kinds of files whose particular use is in sharpening or filing saws of various descriptions. This includes Mill Files, Triangular or Three Cornered Saw Files and Saw Files of special sections.

Second—The Machinists' Files, comprising those kinds generally used in machine shop practice, including the various styles of Flat, Hand, Half Round, Round, Square, Pillar, Warding, Knife, etc.

Third—Special Purpose Files for Aluminum, Brass, Bronze, Lead, Stainless Steel, etc.; and for foundry work and lathe filing.

Fourth—Rasps of Various Types. This group comprises Cabinet Rasps, Shoe Rasps, Wood Rasps, Horse Rasps.

Fifth-Milled Curved Tooth Files.

Sixth—A complete line of X.F. Swiss Pattern Files and Rifflers.

Seventh-Coil Files.

Eighth-Tools and Specialties.



MILL FILES

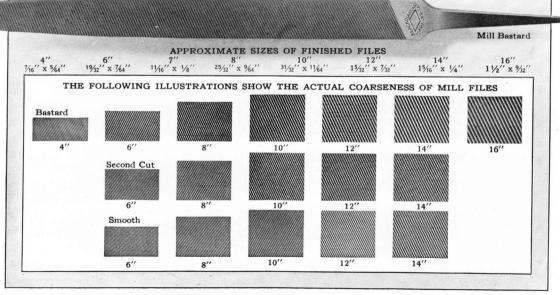


Mill Files are used principally for filing mill or circular saws, also planer knives and mowing machine knives; for lathe work, draw-filing and for finishing compositions of brass and bronze.

All Mill Files are tapered slightly in width and the 12, 14 and 16-inch files are tapered slightly in thickness for about one-third of their length.

Usually made with two square edges. Single cut.

Made in Bastard cut in lengths of 4, 6, 7, 8, 10, 12, 14 and 16 inches; in Second Cut in lengths of 4, 6, 8, 10, 12 and 14 inches; and in Smooth Cut in lengths of 4, 6, 8, 10, 12 and 14 inches.





MILL FILES-Continued

Mill Files are also made with one and two round edges for filing the gullet or space between the saw teeth. These files made in Bastard cut only. Mill Files with one or two round edges come in lengths of 6, 8, and 10 inches. One round edge also in 12 inches.



APPROXIMATE SIZES OF FINISHED FILES

8'' 25/32'' x 9/64''

31/32" x 11/64"

12" 15/2" x 7/32" Mill Bastard. 1 and 2 Round Edges

Special Crosscut

6" 7" 8" 10" 10" 11%" x 1/8" 25/2" x 1/4" 31/2" x 11/4"

The Special Crosscut File has teeth which are specially sharpened for use on Crosscut Saws and works with a smoothness which is evident from the first stroke. The tang is painted orange. Each file is cellophane wrapped. Packed one dozen in orange colored box. Special Crosscut made in 6, 7, 8, and 10 inch lengths only.

PLANER KNIFE FILES

Used for sharpening planer knives and for other similar uses. Made in lengths of 8 and 10 inches. One half of each side is single cut, while the other half is double cut. These files have safe edges. Made in Grade A only.

APPROXIMATE SIZES OF FINISHED FILES

Planer Knife Files

HANDSAW AND BANDSAW FILES

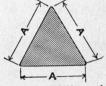


TRIANGULAR OR THREE CORNERED-60-DEGREE ANGLES



Made for filing all types of saws having 60° angle teeth. Handsaw files are usually single cut and have edges that are set and cut for filing the gullet between the saw teeth.

Bandsaw files are single cut and have rounded edges. Some Bandsaws have well rounded gullets between their teeth and these files are preferred for sharpening this type of saw. Bandsaw files are made of the same sections of steel as Handsaw files but because the edges are rounded, the finished files are slightly smaller in width.



Dimension "A" is equal for all sides or widths

Double Extra Slim Taper . . . Double Ender

GENERAL RULE FOR THE SELECTION OF TRIANGULAR SAW FILES

Select a file the width or flat side of which is equal to a little more than the combined length of the face and back of the saw tooth.

KIND 4	" 41/2"	5''	51/2"	6''	7''	8"	9''	10''	12"
Bandsaw Blunt				15/32"		19/32"			
Bandsaw Blunt Slim				15/32"	17/32"	19/32		23/32"	
Taper		9/32"		11/32"	13/32"	15/32"		5/8"	23/32"
	16	15/64"	1/4"	9/32''	5/16"	13/32"			

For those who prefer Double Cut, we will stock in Grade A Brands only 6" and 7" Taper and 6", 7" and 8" Slim, Extra Slim and Double Extra Slim at the same price as Single Cut.

APPROXIMATE SIZES OF "A" FOR HANDSAW AND BANDSAW FILES

BLACK DIAMOND S A W

SAW FILES



SAW FILES-Continued





Made in lengths of 6, 7, 8 and 10 inches.

Taper

Slim Taper

Made in lengths of 4, 5, 6, 7, 8, and 10 inches.

Extra Slim Taper

Made in lengths of 4, 5, $5\frac{1}{2}$, 6, 7 and 8 inches.

Double Extra Slim Taper

Made in lengths of 4, 5, 6, 7 and 8 inches.

8" x 1/4" and 8" x 3/6" Double Extra Slim Taper Files can also be supplied.

Made in lengths of 6, 7, 8, 9 and 10 inches.

Double Ender

The state of the s

Double Ender, with Handle

Double Ender Files are supplied with the handles as shown, six handles to each dozen files.

FILES.....BLACK DIAMOND



SAW FILES-Continued

TRIANGULAR OR THREE CORNERED-60-DEGREE ANGLES



Handsaw Blunt Extra Slim

DISCONTINUED



Bandsaw Blunt Slim

Bandsaw Blunt and Blunt Slim Files are designed for sharpening Bandsaws with well rounded gullets. Single cut,

BANDSAW BLUNT 6" x 15/2" 8" x 19/2" BANDSAW BLUNT SLIM 6" x 5/6" 8" x 15/2"





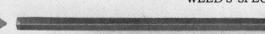


Special Narrow Bandsaw File No. 64

Corners are well rounded but have a smaller radius than Bandsaw Blunt and Bandsaw Blunt Slim Files. Made only in Grade A

No. 63—6" x 15/2" Bandsaw Taper
No. 64—6" x 3/8" Bandsaw Taper Slim
No. 74—7" x 3/8" Bandsaw Taper Slim

WEED'S SPECIAL FILES





Weed's Special File with Handle

Weed's Special Files are made with round tangs for insertion in handles. Made in lengths of 5, 51/2 and 6 inches. Packed one dozen files and four handles to a box. Full information on request. Arcade only.



MISCELLANEOUS SAW FILES





APPROXIMATE SIZES OF FINISHED FILES

Single Cut—Made in lengths of 6, 8 and 10 inches. Same number of teeth per inch as Mill Bastard Files of the same lengths. Used for sharpening crosscut saws of the Great American style—the rounded backs being used to deepen the rounded gullets of the saw teeth. Made only in Grade A.



Cantsaw

APPROXIMATE SIZES OF FINISHED FILES

Single cut—Made in lengths of 6, 8 and 10 inches. These files are used for sharpening Crosscut Saws with "M" teeth, for circular saws and for saw teeth with less than 60° angle. They have the same number of teeth per inch as Mill Bastard Files of equivalent lengths. Single Cut. Edges are set and cut. Cantsaw Files are regularly supplied with cut backs, but may be purchased with safe or uncut backs at regular list prices, if orders definitely specify that such types are wanted.



Pitsaw

APPROXIMATE SIZES OF FINISHED FILES

Single cut—Made in lengths of 6 and 8 inches. Used for sharpening pitsaws. Cut slightly coarser than Mill Bastard Files of the same lengths. 6" x 3/8" available; approximate weight, 1 lb. 2 oz. per dozen.

FILES..... BLACK DIAMOND



MISCELLANEOUS SAW FILES-Continued



B. DIAMOND

Websaw File

Websaw Files are for filing pulpwood or Websaws. Because of their shape, they are specially suited for filing saws having cutting teeth of less than 60° angle or wherever it is desired to file each bevel of the tooth separately. Made only in Grade A.

APPROXIMATE SIZES OF FINISHED FILES

O B DIAMOND

DISCONTINUED

Round Websaw Gulleting File



Sector File

Sector Files are made specially for filing the Bushman type saw. The round back is designed for deepening the gullets between the sections of cutting teeth while the sides are for filing the teeth themselves. When necessary, the narrow edge is for deepening the gullets between the individual cutting teeth. Single cut on sides, back and edge. The width of the narrow edge is 1/2". Made in one length and in Grade A only. Dimensions 6-inch— 1/6" x 1/64" x 1/32".



MISCELLANEOUS SAW FILES-Continued



IMPROVED TAPER FILES

Improved Taper Files are parallel in shape and have a specially shaped point to facilitate holding the file in the machine. Single cut on sides and edges, Regularly available in two sizes only.



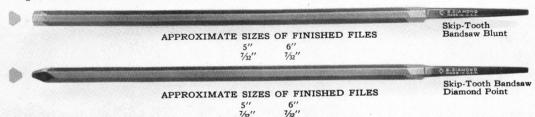
Improved Taper

APPROXIMATE SIZES OF FINISHED FILES

6" x 5/8" 6" x 3/4"

SKIP-TOOTH BANDSAW FILES

Skip-tooth Bandsaw Files are Special Six-Sided Files for filing Skip-tooth Bandsaws used in butcher shops and meat markets. They are of the proper shape to drop into the original gullet and file the face of the tooth, the bottom of the gullet and the back of the next tooth at the same time. Made only in Grade A.





MISCELLANEOUS SAW FILES-Continued



PRUNING SAW FILES

Pruning Saw Files are especially designed for use on Needle Point Pruning Saws. Made on diamond shaped blanks, 6" long. Single cut on two faces of one side and on both edges. Other side uncut. Made in Grade A only.



O B. DIAMONE

Pruning Saw File

APPROXIMATE SIZES OF FINISHED FILES

6" 29/32" x 17/64"

WESTERN CUT FILES

Mill Western Cut files are available in Grade A brands for those who desire fast cutting Mill Files. They are slightly coarser than Mill Bastard.

TYPE B SAW FILES

Available in Grade A brands and in 6" and 7" Slim, Extra Slim and Double Extra Slim.

These Type B Saw Files are slightly coarser than the regular styles.



CHAIN SAW FILES



Nicholson File Company's line of Chain Saw Files, made in styles for use on all types of chains, have been developed for fast cutting, long life and good finish. The correct combination of tooth structure, shear angle and fineness of cut on each type of file provides the user with a selection unsurpassed for performance and quality. Each file, of course, has our unqualified guarantee behind it.

ROUND SMOOTH CHAIN SAW FILES

Round Chain Saw File

These files cut with pleasingly crisp action and finish chain saw teeth of round, hooded type to razor-like smoothness for fast, smooth sawing. This remarkable combination of features in one file results from extensive research and development in Nicholson File Company's engineering laboratories. Please include code number in placing your order through your distributor. Blunt in shape. Made in Grade A only. Supplied as follows:

APPROXIMATE DIMENSIONS Also Single Cut

Also Shigh Cut
Code No. 83 8" x 3/16"
Code No. 84 8" x 1/4"
Code No. 85 8" x 5/16"
Code No. 86 8" x 3/8"
Code No. 89 8" x %2"

LOZENGE CHAIN SAW FILES

O B.DIAMOND

Lozenge Chain Saw File

Preferred by some saw filers for sharpening hooded type chain saw teeth. Made in Grade A only.

APPROXIMATE SIZE OF FINISHED FILES

Code No. 60 11/32" x 1/4"



FLAT CHAIN SAW FILES





Flat Chain Saw File

These files have been developed for plain cutter-and-raker type chain saw teeth. Supplied only with two round edges. Blunt in shape. Made in Grade A only.

APPROXIMATE SIZES OF FINISHED FILES

												7"										8"	
Regular			Co	de	N	0.	17			11/	16"	x	1/8"	٠.		Code	No.	18			25/32"	x	9/64"
Narrow																Code	No.	188	ě.		19/32"	x	3/32"

SQUARE CHAIN SAW FILES

A S. DIAMOND

Square File for Chain Saws

We recommend the Square File because it permits two cutting surfaces of the chain saw teeth to be filed simultaneously. Blunt in shape. Made in Grade A only.

APPROXIMATE WIDTH OF FINISHED FILES

6"
Code No. 26 . . . 7/32"

BLACK DIAMOND MACHINISTS FILES



FLAT FILES



Flat Files are used by machinists, machinery builders, ship and engine builders, repair men and others who require rapid removal of metal. They are rectangular in cross section and taper slightly towards point in both width and thickness. Double cut on both sides, single cut on both edges. Made in Bastard, Second Cut and Smooth in lengths of 4, 6, 8, 10, 12, 14 and 16 inches. In Bastard cut in 18".



Flat Bastard

APPROXIMATE SIZES OF FINISHED FILES

HAND FILES

Widely used by machinists and machinery builders for filing flat surfaces. Hand Files are of rectangular cross-section and are parallel in width and taper slightly in thickness. They are cut on both flat sides but on one edge only. Made in Bastard, Second Cut and Smooth cuts in lengths of 6, 8, 10, 12 and 14 inches.



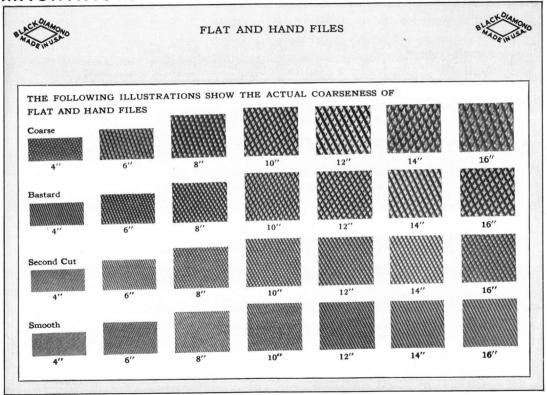
Hand Bastard

APPROXIMATE SIZES OF FINISHED FILES

6" 8" 10" 12" 14" 5%" x 5/32" 25/32" x 7/32" 31/32" x 1/4" 15/32" x 9/32" 111/32" x 5/6"

Note: For illustrations showing Coarseness of Flat and Hand Files see page 20.

MACHINISTS FILES BLACK DIAMOND



BLACK DIAMOND MACHINISTS FILES



HALF ROUND FILES



Generally used by machinists, engineers and repair men and because of the section being rounded on one side and flat on the other are extremely useful files.

The cuts on the flat side are graded in coarseness like Flat and Hand Files shown on the preceding page. The cuts on the backs are graded in coarseness like the illustrations shown on the following page.

Half Round Files are made in Bastard, Second Cut and Smooth cuts, and in lengths of 4, 6, 8, 10, 12, 14 and 16 inches.



Half Round Bastard

APPROXIMATE SIZES OF FINISHED FILES

19/₃₂" x 5/₃₂" 3/₄" x 7/₃₂" 15/₁₆" x 9/₃₂" 11/₈" x 11/₃₂"

19/22" x 13/22"

16"

HAND FINISHING FILES

Hand Finishing Files are double cut and are used when a very smooth finish is desired. They are rectangular in section and are parallel in width. Tapered slightly in thickness. Made with two safe edges in 12 and 14-inch lengths in Smooth cut only.



Hand Finishing Smooth

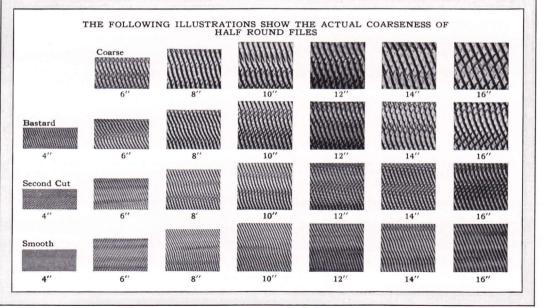
DISCONTINUED



HALF ROUND FILES



The backs of all Half Round Bastard Files are double cut. The backs of all Half Round Second Cut Files longer than 6 inches are double cut, the 4 and 6-inch files are single cut. The backs of all Half Round Smooth Files are single cut. The flat sides of all Half Round Files are double cut.



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BLACK DIAMOND MACHINISTS FILES



ROUND FILES



Round Bastard (tapered)

Their principal use is to file or enlarge circular openings or to file concave surfaces. Made in Bastard cut in lengths of 4, 6, 7, 8, 10, 12, 14 and 16 inches. In Second Cut and Smooth cuts in lengths of 4, 6, 8, 10, 12 and 14 inches.

Round Files are double cut, in Bastard cut from 6" up; in Second Cut from 12". The rest are single cut.

APPROXIMATE DIAMETER OF FINISHED FILES

5/16"

6"

1/4"

5/2

17/64"

10"

3/6"

12"

1/2"

14"

5/8"

16"

3/4"

	732 /4					4
ACTUAL CO	WING ILLUST PARSENESS OF	ROUND FILE		12"	14"	16"
Second Cut	6"	8" 8"	10"	12"	14"	16"
Smooth	6"	8"	10"	12"	14"	16"

MACHINISTS FILES BLACK DIAMOND



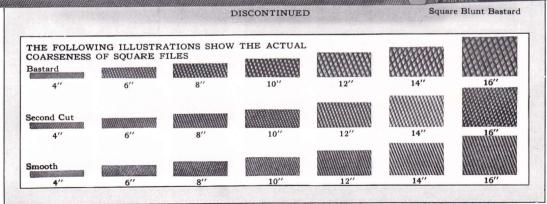
SQUARE FILES



Used principally for filing keyways, slots and general surface filing. Double cut on all four sides. Made in Bastard cut in lengths of 4, 6, 8, 10, 12, 14, 16 and 18 inches. In Second Cut and Smooth cuts in lengths of 4, 6, 8, 10, 12 and 14 inches.

Square Blunt Files are made in Bastard Cut only.

		Square	Square Bastard					
APPR	OXIMAT	E WIDT	H OF FII	VISHED	FILES			
6"	8"	10"	12"	14"	16"	18"		
1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"		



BLACK DIAMOND MACHINISTS FILES



PILLAR FILES



Are of rectangular section (Proportion of width to thickness is two to one). Principally used by machinists and repair men for filing slots and keyways. They are like the Hand File in general shape, and like the Hand File have one edge "safe," or uncut.

Made in Bastard, Second Cut and Smooth cuts in lengths of 6, 8, 10 inches and in Bastard cut only in 12 and 14-inch lengths.

The grading of cuts according to coarseness is the same as the Square File.

Pillar Bastard

APPROXIMATE SIZES OF FINISHED FILES

THREE SQUARE FILES

Are of triangular section like Tapers but are double cut, with the corners left sharp. For general use by machinists for filing internal angles and clearing out corners; also for filing taps and cutters in the annealed state.

Made in Bastard cut, in lengths of 6, 8, 10 and 12 inches. Second cut and Smooth cuts in lengths of 6, 8, and 10 inches only. The grading of cuts according to coarseness is the same as the Square File.

Three Square Bastard

APPROXIMATE WIDTH OF FINISHED SIDES



WARDING FILES



As their name indicates, their principal use is by locksmiths for filing the ward notches in keys. Also suited for filing in narrow spaces where other files would be too thick. Made in lengths of 4, 6, 8 and 10 inches in Bastard, Second Cut and Smooth cuts and in 12-inch length in Bastard cut only. All double cut.

Warding Bastard

APPROXIMATE SIZES OF FINISHED FILES

KNIFE FILES

Are of knife blade section. Used principally by tool and die makers on work having acute angles. Made in lengths of 4, 6, 8 and 10 inches, in Bastard, Second Cut and Smooth cuts. All double cut on sides. Backs uncut but cut backs supplied on customer's request at no extra charge.



Knife Bastard

APPROXIMATE SIZES OF FINISHED FILES



MACHINIST'S G.P. (GENERAL PURPOSE) FILES



These files are single cut for reasonably smooth finish; and serrated diagonally on relatively coarse teeth for fast stock removal and capacity to stand rough usage. Made in one degree of coarseness only. Edges cut. Made in Grade A only.



Machinist's G.P. (General Purpose) Files

APPROXIMATE SIZES OF FINISHED FILES

31/32" x 1/4"

DOCTOR BLADE FILES

14" Doctor Blade File

Designed for filing Doctor Blades in the cloth printing industry. They are made 14 inches in length on Hand Blunt blanks without tang. They are double cut and are made in two degrees of coarseness, Coarse cut and Smooth cut. Made only in Grade A.

APPROXIMATE SIZE OF FINISHED FILE

15/16" x 9/32"

SPECIAL PURPOSE FILES BLACK DIAMOND



FOUNDRY FILES



Developed by us for snagging castings in Foundries and now widely used for removing fins, sprues and other hard projections from castings, and for many other kinds of rough filing. Teeth made extra strong and rugged to stand severe usage.

Made regularly in Bastard and Coarse Cuts, sizes 8" to 14", in Flat and Half Round Shapes. Each file has "Foundry" stamped on it for identification.

APPROXIMATE SIZES OF FINISHED FLAT FOUNDRY FILES

12" 10" 111/32" x 5/16"

15/2" x 9/2" 31/2" x 1/4" 25/32" x 7/32"

APPROXIMATE SIZES OF FINISHED HALF ROUND FOUNDRY FILES 12"

15/16" x 9/32" 11/8" x 11/32" 3/4" x 7/32"

19/32" x 13/32"

FOUNDRY

Flat Bastard Foundry

FILES FOR STAINLESS STEEL

Nicholson File Company now makes files especially for use on Stainless Steel. These files are made in all types and sizes as our regular purpose files, both in American Pattern and Swiss Pattern. The construction of the teeth on files for Stainless Steel is designed to resist the wearing action of these tough dense steels on the file's cutting edges. To order, specify type, size and cut and add "for Stainless Steel" to your specification. Regular list prices. Words "Stainless Steel" are stamped on the tang for identification. Made in Grade A only.

FILES FOR PLASTICS

Because the uses of plastics are rapidly growing and changing, we prefer to have a job description from the customer before recommending specific files. Our files are supplied in all regular types and sizes specially sharpened for use on Hard Plastics. For Soft Plastics, we recommend our Shear Tooth Files. Milled Tooth Files and certain coarser cuts in Regular Purpose Files.

BODIFILES

A line of Bodifiles is available for those who work on automobile bodies, particularly in blending solder with sheet steel. Full particulars given on request. Made in Grade A only.

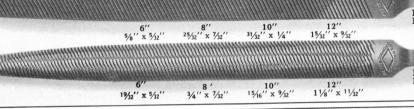
BLACK DIAMOND SPECIAL PURPOSE FILES



FLAT AND HALF ROUND ALUMINUM FILES-TYPE "A"



Best suited for filing aluminum or aluminum alloy castings. These files cut rapidly without clogging. All are of one coarseness of cut, regardless of the shape or size of the file. A smooth finish can easily be obtained by filing with a shearing cut toward the left. Half Rounds in 6.8 and 10 inch only have fine points. Made only in Grade A.



Flat Aluminum File—Type "A"

Half Round Aluminum File—Type "A"

LONG ANGLE LATHE FILES

Specially designed for lathe filing. Long Angle Lathe Files are made on Flat File blanks. Cut on sides only with both edges safe or uncut. The Flat Long Angle Lathe Files are made in lengths of 10, 12 and 14 inches.

Long Angle Lathe File

APPROXIMATE SIZES OF FINISHED FILES

10" 12" 14" 14" 31/32" x ½" 15/32" x 9/32" 111/32" x 5/16"

SPECIAL PURPOSE FILES BLACK DIAMOND



FLAT AND HALF ROUND BRASS FILES

The filing of brass, copper, bronze and similar metals requires a special type of file. While these metals are softer than steel they are also more malleable and are very ductile and tough. These Brass Files are very sharp and should be used with as little pressure as is needed to keep them cutting. Made only in Grade A.



Made in Flat and Half Round sections in lengths of 8, 10 and 12 inches. Half Round 8. 10 and 12-inch have small points.



8" 25/2" x 7/2"

10" 31/32" x 1/4"

12" 15/2" x 9/2"

Half Round Brass File

Flat Brass File

APPROXIMATE SIZES OF FINISHED FILES

8" 3/4" x 7/2"

10" 15/16" x 9/2" 11/8" x 11/32"

SHEAR TOOTH FILES

Shear Tooth Files are for use on aluminum, copper, brass and similar metals. May also be used on cast iron and steel. They remove material rapidly and leave a very smooth finish. Are single cut with a long angle and are furnished in Flat and Half Round sections in lengths of 6, 8, 10, 12 and 14 inches. Made only in Grade A.



APPROXIMATE SIZES OF FINISHED SHEAR TOOTH FILES 10" 12"

- 5/8" x 5/32" FLAT HALF ROUND-19/32

31/32" x 1/4" 15/16" x 9/32

15/32" x 9/32" 1 1/8" x 11/32" 19/32" x 13/32

BLACK DIAMOND SPECIAL PURPOSE FILES



LEAD FLOAT FILES



Designed for use on lead, babbit and other soft metals. Made in Flat and Half Round shapes and in lengths 8", 10" and 12".



Flat Lead Float

APPROXIMATE SIZES OF FINISHED FILES

FLAT LEAD FLOAT FILE

HALF ROUND LEAD FLOAT FILE

THE HANDY FILE

This gives the user a combination file—single cut on one side for sharpening edged tools and smoothing metal surfaces; double cut on other side for rapid removal of metal. Safety handle (painted orange). Convenient "hang up" hole. Dimensions 8" x 7/8" x 5/32". Length measured exclusive of handle.



Illustrated above: Single cut side for sharpening edged tools such as hoes, hatchets and mower blades.

SPECIAL PURPOSE FILES BLACK DIAMOND



DIE CAST FILES



Die Cast Files for finishing die castings of aluminum-alloy and similar metals are made with extra strong teeth on sides, edges and corners to resist shelling off and breaking out. Teeth are designed to eliminate as far as possible the tendency of aluminum-alloy and similar metals to clog the file teeth. Made only in Grade A.

Made in Flat and Half Round sections in lengths of 6, 8, 10, 12 and 14 inches.



DIE CAST

Mill Bastard Die Cast

APPROXIMATE SIZES OF FINISHED FILES

10" 31/32" x 11/64"

15/22" x 7/22"

14" 15/16" x 1/4"



DIE CAST

Half Round Die Cast-Smooth Cut

APPROXIMATE SIZES OF FINISHED FILES

15/16" x 9/32" 11/8" x 11/32"

BLACK DIAMOND SPECIAL PURPOSE FILES



WOOD FILES



Wood Files are made in the same sections and sizes as Regular Flat and Half Round Files. However, they have especially coarse teeth, fitting them for use on wood.

Flat Wood

APPROXIMATE SIZES OF FINISHED FILES

31/32" x 1/4" 15/32" x 9/32" 111/32" x 5/16"

Half Round Wood

APPROXIMATE SIZES OF FINISHED FILES

AUGER BIT FILES

Auger Bit Files are designed to restore the original sharpness to the cutting edges of bits. One end of file has its edges left safe or uncut while the other end has safe sides. This construction prevents damage to surfaces adjacent to those being filed. Made in 7-inch length only. Made in Grade A only.

APPROXIMATE SIZES OF FINISHED FILES

Auger Bit

11/2" x 1/16"

SPECIAL PURPOSE FILES BLACK DIAMOND



CABINET FILES AND RASPS



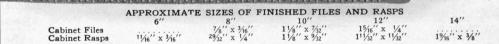
Used by cabinet makers and woodworkers. The curved side of these rasps is similar to that of Half Round Rasps, but of larger radius.

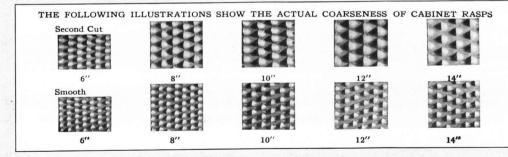
Cabinet Files are made in one coarseness of cut only, in lengths of 8, 10 and 12 inches. Cabinet Rasps are made in both Second Cut and Smooth cuts in lengths of 6, 8, 10, 12 and 14 inches.



Cabinet File

Cabinet Rasp





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. R A S P S



LAST AND PATTERN MAKERS' CABINET RASPS

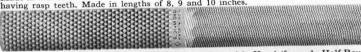


Used by shoe last and pattern makers and for all wood filing when a smooth finish is desired such as in the manufacture of wooden golf club heads. Made in Grade A only. Pattern Makers' Rasps have cut edges while Last Makers' Rasps and Files have safe edges. All these Rasps and Files have numbers on the tangs for convenience when re-ordering. A complete list of the many types manufactured will be supplied on request.

Last Makers' Cabinet Rasp-Bastard

4-IN-HAND (formerly Half Round Shoe Rasp)

Made in half round section as illustrated. Half of each surface file cut, the other half having rasp teeth. Made in lengths of 8, 9 and 10 inches.



4-in-Hand (formerly Half Round Shoe Rasp)

APPROXIMATE SIZES OF FINISHED RASPS 9" 10" 10" 1/6" x 11/2"

ROUND WOOD RASPS AND ROUND CABINET RASPS

Used for the same purpose as Regular Wood and Cabinet Rasps in places for which their shape makes them particularly effective. Each is made in one cut only and in lengths of 6, 8, 10, 12 and 14 inches. Made from steel of the same size as Round Files.

APPROXIMATE DIAMETER OF FINISHED RASPS 6" x 1/4" 8" x 5/6" 10" x 3/6" 12" x 1/2" 14" x 5/8" Round Wood Rasp

O B. DIAMOND

O BIDIAMOND

Round Cabinet Rasp

DISCONTINUED

RASPS.....

..... BLACK DIAMOND



WOOD RASPS-FLAT AND HALF ROUND SECTION

Are used by woodworkers, wheelwrights, plumbers, etc. Made in Bastard and Smooth cuts. Made in Flat sections in lengths of 8, 10, 12, and 14 inches and in Half Round sections in lengths of 6, 8, 10, 12, 14 and 16 inches. In Half Round Smooth 8, 10, and 12 inches. Coarseness of teeth is the same for Flat and Half Round Rasps of the same size.



APPROXIMATE SIZES OF FINISHED RASPS



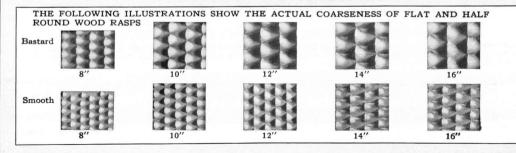




Flat Wood Rasp



Half Round Wood Rasp





HORSE RASPS



Horse Rasps are made in two different types, Plain Rasps, which are double-ended, and Tanged Rasps, Both types have Rasp teeth on one side and file teeth on the other.

Plain Rasps are made in Regular and Slim patterns.

Tanged Rasps are made in Regular and Thin patterns.

Tanged Platers Rasps, which are thinner and finer than the Regular Tanged Horse Rasps, can be supplied in 14" length in Extra Thin and Double Extra Thin.

Made in Grade A only.



APPROXIMATE SIZES OF FINISHED RASPS 12"

Plain Rasp 15/16" x 11/2" Plain Rasp-Slim

123/2" x 7/6"

19/16" x 13/32"

Plain Horse Rasp 20"

111/16" x 7/16"

Tanged Horse Rasp

APPROXIMATE SIZES OF FINISHED RASPS 16"

14" 13/4" x 7/16"

Tanged Rasp Tanged Rasp-Thin

13/4" x 11/32"

17/8" x 15/3"

CURVED TOOTH FILES NICHOLSON FILE COMPANY



THE NICHOLSON SUPER-SHEAR A MILLED CURVED TOOTH FILE THAT SMOOTHS AS IT ROUGHS



The Super-Shear is a "double purpose" Milled Curved Tooth File for use on the flat and convex surfaces of aluminum, brass, babbitt, bronze, copper, magnesium, cast iron and soft metal alloys. Made in Standard, Fine and Smooth cuts in lengths of 8, 10, 12 and 14-inch.



Super-Shear

APPROXIMATE SIZES OF THE SUPER-SHEAR

8" 10" 12" 14" 14" 13/6" x 15/2" x 15/2" x 15/2" x 15/6"

The Curved teeth of the Nicholson Super-Shear are cut in an arc that is "off center" in relation to the axis of the file. This permits the teeth to begin with wide gullets and a right angle—for fast cutting. They become shorter and closer together as they terminate in a long, shearing angle—for producing the smoothing effect. Thus, when a surface is filed with an overlapping stroke in a right-toward-left working direction, the Nicholson Super-Shear "smooths out its tracks as it goes." Practically two files in one! Fast cutting and smooth finishing in one operation. Easy control of file for accurate work. Easy clearance that saves time and keeps the file efficient, Made in Standard, Fine and Smooth cuts.

NICHOLSON FILE COMPANY CURVED TOOTH FILES



NICHOLSON SUPERIOR MILLED TOOTH FILE



Manufactured by Nicholson File Company for those who require top quality in Milled Curved Tooth Files. In three cuts: Standard, Fine and Smooth. Three commonly used types illustrated below. Complete catalog sheet on request.



Flexible Standard

Especially designed for the Auto Body Building and Repair trade. Being very flexible, they are largely used for fender work and for work on curved surfaces of sheet steel and other metals. Made to fit all standard holders.



Flat Standard (Rigid)

The Rigid Type Nicholson Superior Milled Tooth files are recommended for flat surfaces on which a straight even pressure stroke is required. This file may be used on many kinds of metals because of its fast cutting and self clearing teeth.



Half Round Standard (Rigid)

These files are flat on one side and convex on the other, which makes them particularly adapted for filing bearings and concave surfaces. These files are made in three degrees of coarseness.



NICHOLSON SUPERIOR HOLDERS





HALF CIRCLE HOLDER No. 22 AND HALF CIRCLE FILE



SPECIAL CURVED HOLDER No. 23 AND SPECIAL CURVED FILE

Half Circle and Special Curved Superior Files are for use on fenders and in fender wells. They are not flexible and have teeth on one side only. Made in 14" length and in Standard Cut.



STRAIGHT FILE HOLDER No. 24

For use with either 12" or 14" Files.



ADJUSTABLE FLEXIBLE FILE HOLDER No. 25

Made to be used with 12" and 14" Superior Milled Tooth Files and is easily adjusted for curving the file either outward or inward.



NICHOLSON X.F. SWISS PATTERN FILES



- Nicholson X.F. Swiss Pattern Files are made to more exacting measurements than American Pattern Files. Although some cross sections of both types are similar, the shapes differ. The points of X.F. Swiss Pattern Files are smaller and the tapered files have longer tapers than those of American Pattern Files. Nicholson X.F. Swiss Pattern Files are made in much finer cuts, which vary from No. 00, which is the coarsest to No. 6, the finest.
- Our X.F. Swiss Pattern Files are primarily finishing tools, used for removing burs left over from previous finishing operations, rounding out slots and cleaning out square corners, smoothing up small parts and in fact, doing the final finishing on all sorts of delicate and intricate pieces. The smaller points of these files make them useful for enlarging small holes and shaping and finishing very narrow grooves, slots, notches and keyways.
- X.F. Swiss Pattern Files are used by tool and die makers, delicate instrument parts finishers, jewelers, model makers and home craftsmen. In short, everyone who does superfine precision filing will have many uses for X.F. Swiss Pattern Files.
- Special care is required in the manufacture of X.F. Swiss Pattern Files. They are made in a separate division of our Providence Factory by a staff specially trained for their work. Anyone who buys X.F. Swiss Pattern Files is assured of highest quality under Nicholson's guarantee of "Twelve Perfect Files in Every Dozen."



NICHOLSON

EXTRA++ X F + FINE

SWISS PATTERN FILES

HAND FILES

NICHOLSON

EXTRA+ X F + FINE

SWISS PATTERN FILES

HAND FILES

HAND FILES

Hand Files are parallel in width and taper in thickness. The flat sides are double cut. Hand Files in cuts Nos. 00, 0, 1 and 2 are single cut on one edge, the other edge being safe. Hand Files in cuts Nos. 3, 4 and 6 have two safe edges. Made in lengths of 3, 4, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6. No. 3 cut not made in 12" length. No. 6 cut in 6" and 8" lengths only.

APPROXIMATE SIZES OF FINISHED FILES $\frac{3''}{\%''} \times \frac{4''}{\%''} \times \frac{6''}{332''} \times \frac{8''}{32''} \times \frac{10''}{32''} \times \frac{12''}{32''} \times \frac{11}{32''} \times$

PILLAR FILES



Pillar Files are similar in shape to Hand Files but about two-thirds as wide. Double cut on the two flat sides only, the edges being safe.

Made in lengths of 3, 4, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6. No. 3 cut not made in 10" and 12" lengths. No. 6 cut made in 4" length only.

APPROXIMATE SIZES OF FINISHED FILES
3" 4" 6" 8" 10" 12"

1%4" x 5%4" 23%4" x 7%4" 15½2" x %4" 33%4" x 13%4" 47%4" x 15%4" 53%4" x 17%4"

In addition to the regular widths, Pillar Files are furnished in the following widths in minimum quantities of one dozen of the same kind at no advance over regular prices:

8" 10" 12" 3¼" x ¾6" 5%" x 15¼4" 1" x ¼4"



PILLAR NARROW FILES





Piller Narrow No 2

Pillar Narrow Files are similar to Pillar Files, but narrower for the same length. Double cut on the two flat sides only. the edges being safe. Made in lengths of 3, 4, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6. No. 3 cut not made in 10" and 12" lengths. No. 6 cut made in 3", 4" and 6" lengths only.

In addition to the regular widths, Pillar Narrow Files are furnished in the following widths in minimum quantities of one dozen of the same kind at no advance over regular prices:

PILLAR EXTRA NARROW FILES



Pillar Extra Narrow No. 4

Pillar Extra Narrow Files similar to Pillar and Pillar Narrow Files but narrower than the Pillar Narrow for their length. Cut on the two flat sides only, the edges being safe. Made in lengths of 3, 4, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6. No. 3 cut not made in 10" or 12" lengths. No. 6 cut made in 3", 4" and 6" lengths only.

In addition to the regular widths, Pillar Extra Narrow Files are furnished in the following widths in minimum quantities of one dozen of the same kind at no advance over regular prices:

NICHOLSON NICHOLSON **EQUALING FILES** F. SH FINE SWISS PATTERN FILES SWISS PATTERN FILES Equaling No. 0 Equaling Files are parallel in both width and thickness throughout their length. Double cut on the two flat sides and single cut on both edges. Made in lengths of 3, 4, 6 and 8 inches and in cuts Nos. 00, 0, 1, 2 and 4. APPROXIMATE SIZES OF FINISHED FILES 6" 13/32" x 5/64" 19/32" x 7/64" 5/16" x 1/16" 3/4" x 9/64" Equaling Files may be obtained in minimum quantities of one dozen without extra charge in the following B & S gauges: 18 B & S (.040") and 16 B & S (.051"), 18 B & S (.040") 10 B&S (.102"), 12 B&S (.081") 10 B & S (.102") and 20 B & S (.032") gauge and 14 B & S (.064") gauge 20 B & S (.032") gauge gauge

SOUARE FILES

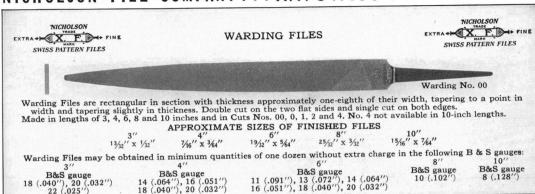
2 €223-

Square No. 2

Square Files are square in section and taper on all four sides to a fine point. Double cut on all four sides. One safe side when so ordered. Made in lengths of 3, 4, 6, 8, 10 and 12 inches and in cuts Nos. 00, 0, 1, 2, 3 and 4. No. 3 cut not made in 10 or 12-inch lengths. No. 4 not made in 12-inch lengths.

APPROXIMATE WIDTH OF FINISHED FILES

3'' 4'' 6'' 8'' 10'' 12'' 16'' 7/64'' 5/32'' 15/64'' 21/64'' 27/64'' 27/64''



CROCHET FILES



Crochet Files taper to a point in both width and thickness and are made with both edges well rounded. Double cut on the flat sides and on both edges.

Made in lengths of 3, 4, 6, 8 and 10 inches and in cuts Nos. 00, 0, 1, 2 and 4. Nos. 1 and 4 not available in 10-inch lengths.

APPROXIMATE SIZES OF FINISHED FILES

3" 4" 6" 8" 10" 17/64" x 5/64" 3/8" x 3/32" 31/64" x 1/8" 11/16" x 5/32" 13/16" x 3/16"



Knife Files are made from steel that is knife shaped, the included angle of the sharp edge being 10°. They taper in width and thickness to the point. Double cut on both flat sides and single cut on both edges.

Made in lengths of 3, 4, 5, 6 and 8 inches and in cuts Nos. 00, 0, 1, 2, 3 and 4. Nos. 1 and 3 cuts not made in 3" or 5"

lengths. No. 3 not made in 8" lengths.

APPROXIMATE WIDTH OF FINISHED FILES

3" 4" 5" 6" 8" 3/8" 31/4" 9/16" 21/32" 27/32"

BARRETTE FILES

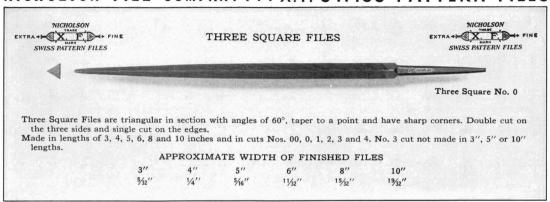


Barrette Files are flat on one side, the back being beveled at both edges as indicated by the cross section, the included angle being 33°. Double cut on the wide flat side only, the back and the beveled edges being safe.

Made in lengths of 3, 4, 6 and 8 inches and in cuts Nos. 00, 0, 1, 2 and 4.

APPROXIMATE WIDTH OF FINISHED FILES

3" 4" 6" 8" 8" 3%" ½" 21/32" 7%



METAL SAW FILES



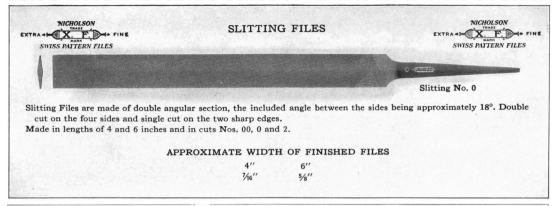
Metal Saw No. 2

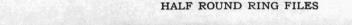
Metal Saw Files are the same in section as Three Square Files but are parallel throughout their length. Double cut on the three sides and single cut on the edges.

Made in lengths of 4, 5, 6 and 8 inches and in cuts Nos. 0, 2 and 4.

APPROXIMATE WIDTH OF FINISHED FILES

4" 6" 1/4" 5/16" 11/20" 15/32"



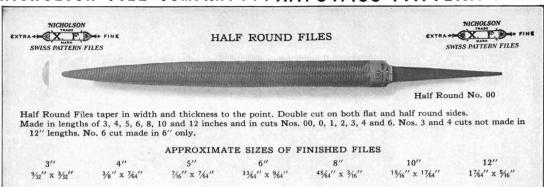




Half Round Ring No. 00

For use by jewelers, particularly ring manufacturers, Half Round Ring Files are 6 inches in length and are made in cuts Nos. 00, 0, 1, 2 and 4.

The dimensions of the finished files are 29/64" x 1/8".

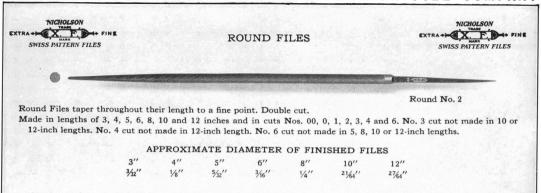


CROSSING FILES



Crossing Files are made of double circular section, one side having the same radius as the Half Round File and the other side having a flatter curve or larger radius. They taper to a point in both width and thickness. Double cut on both sides. Made in lengths of 3, 4, 6, 8 and 10 inches and in cuts Nos. 00, 0, 1, 2, 3, 4 and 6. Nos. 3 and 4 cuts not made in 10" lengths. No. 6 cut not made in 3", 8" or 10" lengths.

APPROXIMATE SIZES OF FINISHED FILES



ROUND STRAIGHT FILES



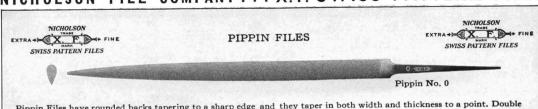
Round Straight Files are made of the same sizes of steel as Round Files but are parallel throughout their length. Double cut.

Made in lengths of 4, 5, 6 and 8 inches and in cuts Nos. 00, 0, 2 and 4.

APPROXIMATE DIAMETER OF FINISHED FILES

4" 5" 6" 8" 1/8" 5/32" 3/16" 1/4"

The diameters given above are regular, and are furnished unless the customer specifies otherwise. Round Straight Files are also furnished in the following diameters at no advance over regular prices: 4"—1/16", 3/32"; 5"—3/32", 1/8", 3/6"; 6"—1/8", 5/32",



Pippin Files have rounded backs tapering to a sharp edge and they taper in both width and thickness to a point. Double cut. These files are sometimes called "Apple Seed" files.

Made in lengths of 4, 6 and 8 inches and in cuts Nos. 00, 0, 1 and 2.

APPROXIMATE SIZES OF FINISHED FILES

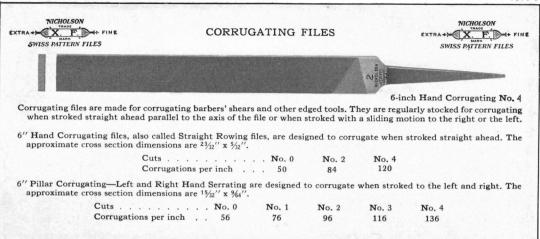
4" 6" 8" %2" x 1/8" 13/32" x 5/32" 1/2" x 7/32"

PILLAR TESTING FILES



Testing Files are made especially to be used as standards for testing the hardness of tempered tools or metals. Double cut with a special form and style of tooth particularly adapted to the very severe work for which these files are designed.

Made in Pillar section 6 inches in length, cuts Nos. 0 and 1; and in Pillar Narrow section 8 inches in length, cuts Nos. 0 and 1.



SCREW HEAD FILES

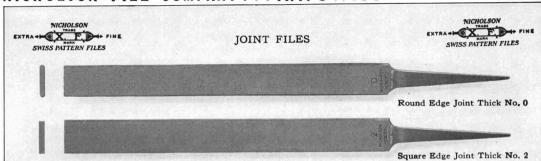


Screw Head Plain

Screw Head Tanged

Screw Head Files are made for enlarging and clearing out the slots in the heads of screws. Used principally by watch makers and jewelers. They are made in two styles, Plain and Tanged.

Made in one size only, 3 inches long and in one cut. Approximate size 1/16" x 1/12".



Joint Files are parallel in width and thickness and are made with round or square edges, thick or thin. Double cut on the edges only, the sides being safe.

Made in lengths of 4 and 6 inches and in cuts Nos. 0 and 2.

APPROXIMATE SIZES OF FINISHED FILES

JOINT FILES WITH ROUND EDGE are made in the following B & S gauges, at regular prices:

4" 6" 9 to 26 gauge 10, 12, 14 and 16 gauge

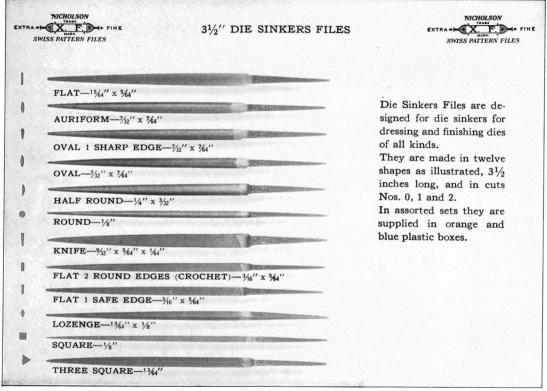
JOINT FILES WITH SQUARE EDGE are made in the following B & S gauges, at regular prices:

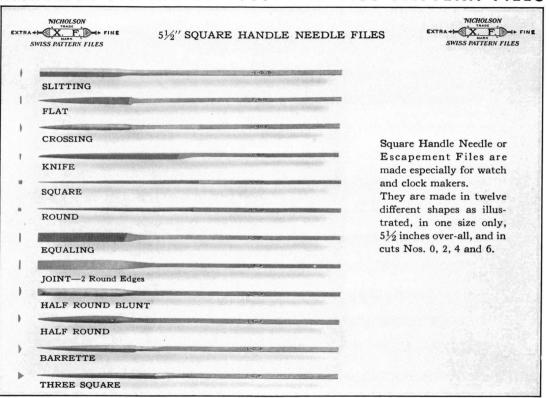
16, 18 and 20 gauge

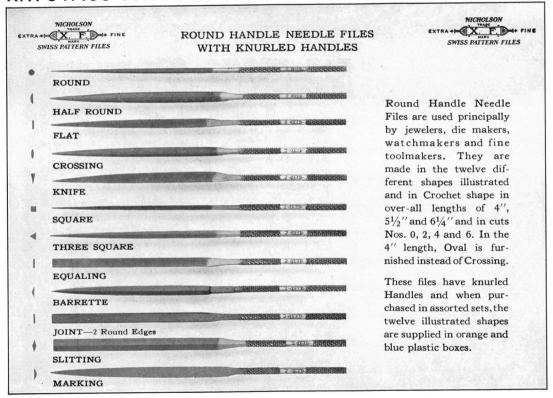
10, 12, 14 and 16 gauge

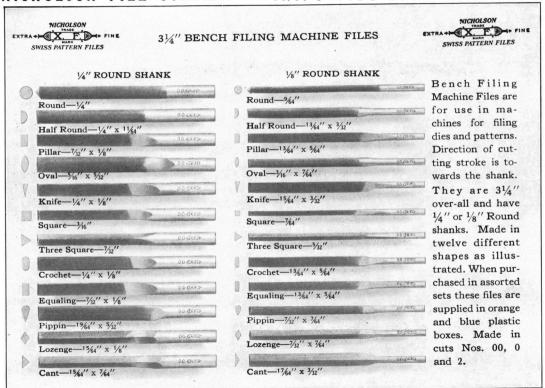
B & S GAUGES AND THEIR DECIMAL EQUIVALENTS

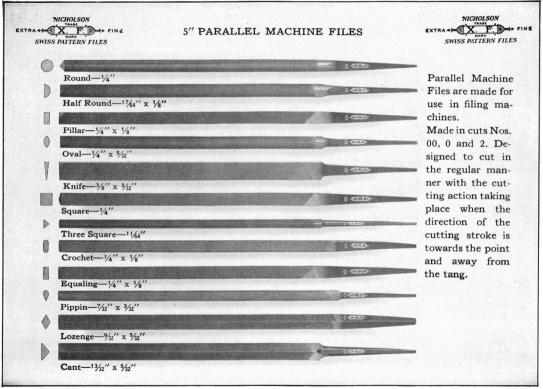
B & S No. 9-.114" B & S No. 10-.102" B & S No. 11-.091" B & S No. 12-.081" B & S No. 13-.072" B & S No. 14—.064" B & S No. 15—.057" B & S No. 16-.051" B & S No. 17-.045" B & S No. 18-.040" B & S No. 19-.036" B & S No. 20-.032" B & S No. 21-.028" B & S No. 22-.025" B & S No. 23-.022" B & S No. 24-.020" B & S No. 25-.018" B & S No. 26-.016"



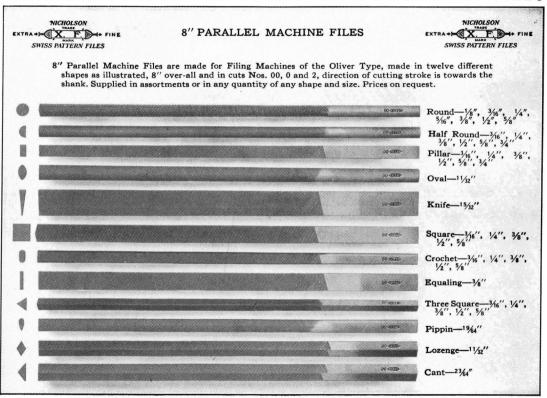


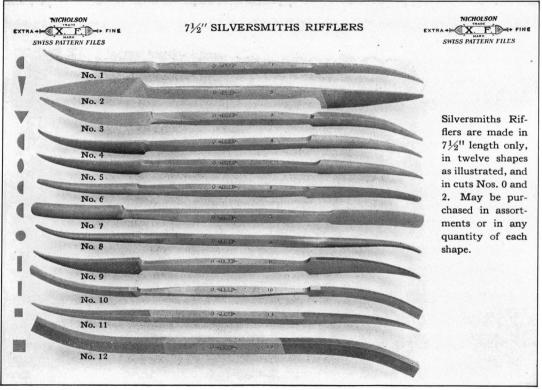


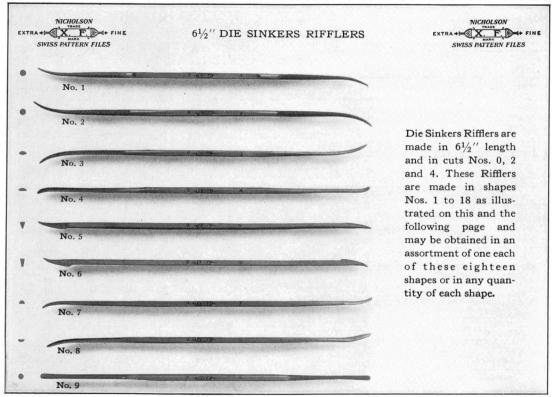


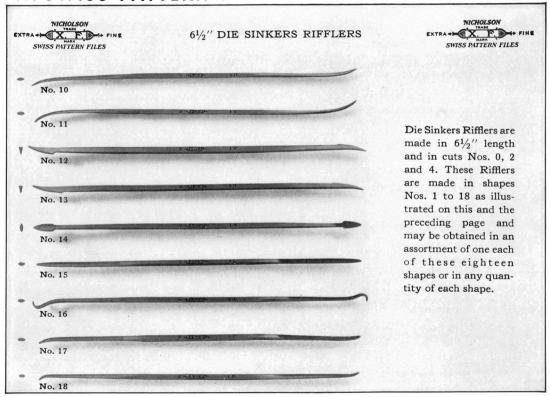


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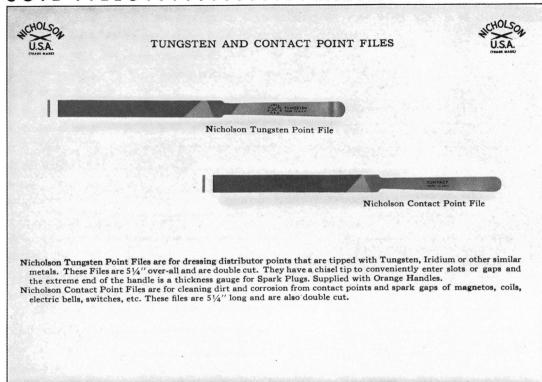






NICHOLSON TANDE	BROACH	FILES		CH FILES TWIST DRILL	WIRE GA	EX AUGE	TRA + S. MARR. F. SWISS PATTERN FILES
	Gauge	Diam.			Gauge	Diam.	
	65	.035"			52	.0635′′	
	64	.036"			51	.067"	Broach Files are
2 mental para di America Santana	63	.037"		- Sive Superior in the	50	.070′′	made in round section, parallel
	62	.038"		n se despuisant de mestra de la constante de l	49	.073"	throughout
	61	.039"			48	.076′′	their lengths. Made in one
	60	.040′′			47	.0785"	length only, 3
· Charles of Different Assessment	59	.041"	• •		46	.081"	inches over-all and in one cut,
· Committee of the contract of	58	.042"	• •		45	.082"	which is approx- imately the same
	57	.043"		S CANADA DA DA DA DA BARA	44	.086"	as the cut on a 3" Round No. 0.
	56	.0465"	• •		43	.089"	D Round 110. U.
•	55	.052"	• •		42	.0935"	
Assessment of the second	54	.055"			41	.096"	
	53	.0595"	0 4		40	.098"	

COIL FILES NICHOLSON FILE COMPANY



NICHOLSON FILE COMPANY . . . TOOLS AND SPECIALTIES



TOOLS AND SPECIALTIES . . . NICHOLSON FILE COMPANY



NICHOLSON FILE COMPANY . . . TOOLS AND SPECIALTIES



NICHOLSON TOOLS AND SPECIALTIES



FILE CARDS AND BRUSHES

These File cleaners are made in two styles as illustrated. The File Card for more general use and the File Brush (combining the Brush and Card) for use especially on the finer cut files. The over-all length of these cleaners is 10 inches. Packed six in a box.



File Card



TOOLS AND SPECIALTIES ... NICHOLSON FILE COMPANY

NICHOLSON TOOLS AND SPECIALTIES



METAL FERRULED HANDLES

These handles are made from seasoned White Birch with Nickel Plated Steel Ferrules, Shellac finish.

SIZES OF HANDLES RECOMMENDED FOR SOME OF THE MORE COMMON FILES

	6′′	7''	8′′	10''	12''	14''	16"
Flat, Half Round, Hand	3		2	1	1	0	0
Square, Round	15*	8,000	3	2	1	1	0
Three Square	3		2	2	1		
Pillar	3	÷	2	1	1		
Warding, Knife	4		3	1			
Mill	4	3	3	2	1	0	0
Slim Taper	4	3	3	3	2		
Extra Slim Taper	14*	4	3				
Double Extra Slim Taper .	13*	. 4	4	2.0			

^{*}These are straight Ferruled Handles illustrated on page 69.

APPROXIMATE SIZES IN INCHES

No. 0	No. 1	No. 2	No. 3	No. 4
51/4" x 11/2"	47/8" x 15/16"	4½" x 1¾6"	41/8" x 11/16"	33/4" x 15/16"

NICHOLSON FILE COMPANY . . . TOOLS AND SPECIALTIES

NICHOLSON TOOLS AND SPECIALTIES

STRAIGHT FERRULED HANDLES

These handles are made of kiln dried birch, stained and waxed. Steel ferrules inserted.

SIZES OF HANDLES RECOMMENDED FOR SOME OF THE MORE COMMON FILES

THE MORE C	OMMO	N FILES		727	
	3″	31/2"	4"	41/2"	5"
Square, Round, Pippin	14	14	14		15
Warding, Knife, Barrette	15	1	4†		3†
Hand, Pillar, Equalling, Crossing	15		4†		
Half Round	14		4†		3†
Three Square, Pillar Narrow	14	1	15		4†
Slim			14	15	15
Extra Slim			13	14	15
Double Extra Slim			13	13	14
Die Sinkers Files		12			••

†These are Metal Ferruled handles listed on page 68.

APPROXIMATE SIZE IN INCHES

No. 11	No. 12	No. 13	No. 14	No. 15
	1/8" x 17/32"	41/2" x 39/64"	5" x 45/64"	51/8" x 47/64"

ALPHABETICAL INDEX, PACKING AND APPROXIMATE WEIGHTS

In Pounds and Ounces Per Dozen, In Regular Cardboard Boxes

Kinds	Page	Number of Files																
Kinds	rage	per Box	3"	4"	41/2"	5"	51/2"	6"	61/4"	61/2"	7*	8"	9"	10"	12"	14"	16"	18"
Aluminum Type "A" Flat	29	*8"						1-9				3-12		7- 6	11- 6			
luminum Type "A" Half Round	29	*8"						1-4				2-11		6- 3	9-14			
uger Bit	33	1 doz.									- 9							
andsaw Blunt	12	1 doz.						2- 6				4-12						
andsaw Blunt Slim	12	1 doz.						1- 2				3- 1						
andsaw, Skiptooth, Blunt	15	1 doz.				-11		-13										
andsaw, Skiptooth, Diamond Point	15	1 doz.				-101/2		-123/4										
andsaw Taper 6" No. 63	12	1 doz.						2-										
andsaw Taper 6" No. 64	12	1 doz.						-15										
andsaw Taper 7" No. 73	12	1 doz.									2- 6							
andsaw Taper 7" No. 74	12	1 doz.						2			1-11							
arrette (X.F.)	46	*6"	-3	-9				1- 5				2-14						
ench Filing Machine (X.F.)	57	1 doz.																
Bent Rifflers	65	1/2 doz.																
odifiles	28	*8"										3-12		7- 6	11- 6			
rass, Flat	30											2-11		6- 3	9- 8			
rass, Half Round	30	*8"	.:															
roach (X.F.)	63	1 doz.	-1											5-				
Brushes, File	67	1/2 doz.												3-				6
Cabinet Files	34	*8"										2-13		4-13	8-			
abinet Rasps	34	*8"						1- 6				2-13		4-13	8-6	13-11		
antsaw	13	1 doz.						1-5			2- 4	2-13		5- 6				
ards. File	67	1/2 doz.												3- 8				
hain Saw—Flat	18	1 doz.									2-	2-13						
hain Saw-Flat, Narrow	18	1 doz.										1-8						
hain Saw—Lozenge	17	1 doz.						-15										
hain Saw-Round, Code No. 83	17	1 doz.						-12				1-						
hain Saw-Round, Code No. 84	17	1 doz.						1-				1-8						
hain Saw-Round, Code No. 85	17	1 doz.										2- 5						
hain Saw-Round, Code No. 86	17	1 doz.										3-						
hain Saw-Round, Code No. 89	17	1 doz.										2-						
hain Saw-Round, Code No. 183	17	1 doz.										1-						
hain Saw-Round, Code No. 184	17	1 doz.										1-8						
hain Saw-Round, Code No. 185	17	1 doz.										2- 5						
hain Saw-Round, Code No. 186	17	1 doz.										3-						
hain Saw-Round, Code No. 189	17	1 doz.										2-						
hain Saw-Square	18	1 doz.						-14										
leaners, File	67	1/2 doz.																
ontact Point	64							2: - 2										
orrugating, Hand (X.F.)	52	1 doz.						2- 5										
orrugating Pillar (X.F.)	52	1 doz.	٠.					1-10				:		:				
rochet (X.F.)	45	*6"	-4	- 7				1- 1				2- 7		4-				
rosscut, Great American	13	*10"						1-11				3- 6		5- 5				
rosscut, Special	9	*10"	١.	.::				1-3			2-	2-14						
rossing (X.F.)	49	*6"	-4	-10				1-14				4-		6- 2				
Die Cast, Mill Bastard	32	*10"						1-3				2-11		5- 4	9- 1	13- 2		
Die Cast, Half Round Smooth	32	*8"						1- 7				3- 2		5-13	9-14	16-		
Die Sinkers (X.F.)	54	1 doz.	1::															
TO DIMENTO (A.F.)	1 01	I dos.	1		1		1			1		1	1	1			Section 2008	

^{*}This size and smaller sizes, packed 1 dozen to a box. Larger sizes packed 6 to a box. †Figures before Dash (-) indicate pounds. Figures after Dash (-) indicate ounces.

ALPHABETICAL INDEX, PACKING AND APPROXIMATE WEIGHTS—Continued

In Pounds and Ounces Per Dozen, In Regular Cardboard Boxes

V:-J-	Danie	Number																
Kinds	Page	of Files per Box	3"	4"	41/2"	5"	51/2"	6"	61/4"	61/2"	7"	8"	9"	10"	12"	14"	16"	18"
Die Sinkers Rifflers Doctor Blade Double Ender, with handle Double Extra Slim Taper	61,62 27 11 11	1 doz. ½ doz. 1 doz. 1 doz.	:::::::::::::::::::::::::::::::::::::::	 - 3		- 5		-12 - 7	:	-6 	-12 -11	1- 5 1- 1	i-15	2- 6	:::::	20-13	:::::	:::::
Equaling (X.F.) Extra Slim Taper	44 11	*6" 1 doz.	-4	- 8 - 4		- 7	·	1- 5 -11			i- 2	3- 5 2-	::::	::::		:::::		:::::
Flat. Foundry, Flat, Bastard. Foundry, Half Round Bastard. 4-in-Hand (formerly Shoe Rasp).	19 28 28 35	*8" *8" *8" ½ doz.	::	- 8 	::::			1- 9		::::		3-12 3-12 3- 2 4- 1	5-10	7- 6 7- 6 5-13 6-14	11- 6 11- 6 9-14	16- 16- 16-	24- 2	31- 7
Half Round (X.F.) Half Round (X.F.) Hand Hand (X.F.) Handles Metal Ferruled	21 49 19 42 68	*8" *6" *8"	4 7	-10 - 8 -14		-12		1- 7 1- 4 1-12 2- 5		::::		3- 2 2-11 3-14 4- 9	::::	5-13 6- 3 7-10 8-	9-14 9- 8 11- 8 14- 8	16- 16-12	22-12	
Handles, Straight Ferruled Handy File Holders, Superior File Horse Rasp, Plain—Regular Horse Rasp, Plain—Siim	69 31 40 37 37	1 doz. 1 doz. ½ doz. ½ doz.	::::::	:::						::::		5-11			13-12	17-10	26-11	25-15
Horse Rasp, Tanged—Regular Horse Rasp, Tanged—Thin Improved Taper (6x½) Improved Taper (6x½)	37 37 15 15	1/2 doz. 1/2 doz. 1 doz. 1 doz.	::	:::				3-13 5- 6 ³ / ₄		::::			::::	::::		23- 4		
Joint (X.F.)	53 26	1 doz.		- 5 - 7				1- 4				2- 3		4- 3				
Knife (X.F.) Last Makers Rasps and Files Lathe, Long Angle Lead Float, Flat Lead Float, Half Round	46 35 29 31 31	1 doz. *8" ½ doz. *8" *8"	4 ::::	- 7 		-11	::::	1- 2	::::	::::		3-12 3-2	::::	7- 6 7- 6 5-13	11- 6 11- 6 9-14	16-	······ ······	
Machinist's G.P. (General Purpose) Machinists Scrapers Metal Saw (X.F.) Mill Mill Blunt Mill, I Round Edge.	27 66 47 8 9	*8" ½ doz. *6" *10" *10" *10" *10"		- 7 - 6		-13		1- 4 1- 3 1- 3 1- 2 1- 2			1-15 2-	3-12 3-5 2-11 2-14 2-10 2-9		7- 6 5- 4 5- 5 5- 4 5-	11- 6 9- 1 9- 5 8-15 8-12	16- 13- 2	20-10	
Needle, Round Handle (X.F.)	56 55	1 doz. 1 doz.	::	- 2 	::::	::::::	- 4 - 3	::::::	-6 	::::		::::		::::			:::::	::::
Parallel Machine, 5" (X.F.)	58 59 35	1 doz. 1 doz. *8"	::	:::									::::	::::				

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ALPHABETICAL INDEX, PACKING AND APPROXIMATE WEIGHTS—Continued

In Pounds and Ounces Per Dozen, In Regular Cardboard Boxes

Kinds	Page	Number of Files																
Kinds	Page	per Box	3"	4"	41/2"	5"	51/2"	6"	61/4"	61/2"	7"	8"	9"	10"	12"	14"	16"	18"
Pillar	25	*10"						1-13				3- 9		6-13	11- 9	17-12		
Pillar (X.F.)	42	*6"	-5	-10				1-10				3-8		6- 3 3-11	9-12			
Pillar Extra Narrow (X.F.)	43	1 doz. *6"	-3 -4	- 5 - 8				-13 1- 4				2-10	1::::	5-3	8-8			
Pillar Narrow Testing (X.F.)	51	1/2 doz.		- 0				A- T				2-10	1::::					
Pillar Testing (X.F.)	51	1 doz.						1-10										
ippin (X:F.)	51	1 doz.		- 7				1- 1				1-13						
itsaw	13	1 doz.						1- 6				3-		2				
laner Knife	9	1 doz.										2-13		5- 1				
Plastics, Files for	28 16	1 doz.						2- 3										
Pruning Saw	10	1 doz.	• •					2- 3										
Ring, Half Round (X.F.)	48	1 doz.						1- 4				: :::		:		::	::	
cound.	23	*10"	1:	- 4				-12 -11			1- 3	1-12		3- 4 2-11	6-12 4-10	12-	19- 8	
Round (X.F.)	50 50	1 doz.	-1	- 4		- 6 - 8		-11				1-12		INCHEST STREET	a specie			
Cound Straight (X.F.)	30	I doz.				- 0		-14										
crew Head (X.F.), Plain	52	1 doz.	-2															
crew Head (X.F.), Tanged	52 14	1 doz.	-3					1- 4										
ectorhear Tooth, Flat	30	*8"	• •					1- 9				3-12	::::	7- 6	11- 6	16-		
hear Tooth, Half Round	30	*8"	::		::::			1- 7	::::			3- 2		5-13	9-14	16-		
Shoe Rasp, Half Round	35	1/2 doz.	::									4- 1	5-10	6-14				
ilversmiths Rifflers	60	1 doz.																
lim Taper	11	*10"		- 5		- 9		-15			1-11	2-11		4-14	9-			
litting (X.F.)	48	1 doz.		- 6				-14				1:::				::	à: · · ·	
quare	24	*10"	.:	- 4				-14				1-15		3-13	8- 8 6- 3	15-	25-	39-
quare (X.F.)	44 28	1 doz.	-2	- 4				-10				1- 6		3-	0-3			
uperior Milled Tooth—Flexible	39	*10"	::	:::								2- 5		4- 8	6- 7	8- 9		
Superior Milled Tooth—Flat	39	*8"	1::									2-12		5-14	9- 9	17-		
Superior Milled Tooth-Half Round	39	*8"										3- 8		6- 5	11- 5	17- 9		
Super-Shear	38	*8"										2-12		5-14	9- 9	17-		
Taper, Regular	11	1 doz.						2-			3- 2	4- 4		7- 8				
aper, Type B	16																	
hree Square	25	*10"						1-13				4- 4		7-8	11- 6			
hree Square (X.F.)	47	*6"	-3	- 6		-11		1- 1				2-10		4-11				
ungsten Point	64																	
Zarding	26	1 doz.		- 5				-12				1- 9		2-14	5-			
Varding (X.F.)	45	1 doz.	-3	- 5				-13				1-10		2-15				
Vebsaw	14	1 doz.				2-3	2- 7	3- 1- 21/4										
Veed's Special	12 16	1 doz.				-123/4												
Vestern CutVood File, Flat	33	*8"		• • • •			::::					3-12		7- 6	11- 6	16-		
Vood File, Half Round	33	*8"	::	:::								3-3	1::::	5-14	9-14	16-		
Vood Rasp, Flat	36	*8"										3- 9		7-	11-10	18-11		
Vood Rasp, Half Round	36	*8"						1-8				3- 4		6-	10- 6	16-12	24- 2	
Vood Rasp, Round	35	*10"						-12				1-12		3- 4	6-12	12-		

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